The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+] , coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+) , and at least one supporting survey within 2 years [S+] . While well supported, the estimate still carries a risk of being wrong.
- There are no directly supporting data; or data from at least one source; [R-], [D-], or [S-], challenges the estimate.
- Estimate is based on interpolation between data reported by national government. Reported data excluded. 102 percent greater than 100 percent. GoC=D+
- Estimate is based on interpolation between data reported by national government. Reported data excluded. 110 percent greater than 100 percent. GoC=D+
- Estimate based on reported data. Estimate challenged by: D-
- Estimate based on reported data. Estimate challenged by: D-
- Estimate based onreported data. Estimate challenged by: D-
- Estimate based on reported data. Estimate challenged by: D-

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

### Description:

2003: DTP1 coverage estimated based on DTP3 coverage of 99. Estimate challenged by: D-R-

2004: DTP1 coverage estimated based on DTP3 coverage of 100. Reported data excluded. 102 percent greater than 100 percent. Estimate challenged by: D-R-

2005: DTP1 coverage estimated based on DTP3 coverage of 98. GoC=No accepted empirical data

2006: DTP1 coverage estimated based on DTP3 coverage of 95. Estimate challenged by: D-R-

2007: DTP1 coverage estimated based on DTP3 coverage of 96. Estimate challenged by: D-R-

2008: Estimate based on interpolation between data reported by national government. Reported data excluded. 104 percent greater than 100 percent. Estimate challenged by: D-

2009: DTP1 coverage estimated based on DTP3 coverage of 100. Estimate challenged by: D-R-

2010: DTP1 coverage estimated based on DTP3 coverage of 98. Estimate challenged by: D-R-

2011: DTP1 coverage estimated based on DTP3 coverage of 98. Estimate challenged by: D-R-

2012: Estimate based on coverage reported by national government. Estimate challenged by: D-

2013: Estimate based on coverage reported by national government. Estimate challenged by: D-

2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

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The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.
The WHO and UNICEF estimates of national immunization coverage (wunic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

*** Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.

** Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.

* There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

### Dominica - DTP3

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The WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

**Description:**

2003: Estimate based on coverage reported by national government. Estimate challenged by: D-

2004: Estimate based on coverage reported by national government. Estimate challenged by: D-

2005: Estimate based on coverage reported by national government. GoC=R+

2006: Estimate based on coverage reported by national government. Estimate challenged by: D-

2007: Estimate based on coverage reported by national government. Estimate challenged by: D-

2008: Estimate based on coverage reported by national government. Estimate challenged by: D-

2009: Estimate based on coverage reported by national government. Estimate challenged by: D-

2010: Estimate based on coverage reported by national government. Estimate challenged by: D-

2011: Estimate based on coverage reported by national government. Estimate challenged by: D-

2012: Estimate based on coverage reported by national government. Estimate challenged by: D-

2013: Estimate based on coverage reported by national government. Estimate challenged by: D-

2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

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- **•••** Estimate is supported by reported data [R+] , coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+) , and at least one supporting survey within 2 years [S+] . While well supported, the estimate still carries a risk of being wrong.
- **••** Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- **•** There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.
Dominica - MCV1

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- **Estimate** is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.

- **Estimate** is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.

- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

### Description:

- **2003**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2004**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2005**: Estimate based on coverage reported by national government. GoC=R+ Estimate challenged by: D-
- **2006**: Estimate based on interpolation between data reported by national government. Reported data excluded. 102 percent greater than 100 percent. Estimate challenged by: D-
- **2007**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2008**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2009**: Estimate based on interpolation between data reported by national government. Reported data excluded. 106 percent greater than 100 percent. Estimate challenged by: D-
- **2010**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2011**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2012**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2013**: Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2014**: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Programme reports six month stock-out of measles containing vaccine at national level. Estimate challenged by: D-
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

### Description:

Coverage estimates for the second dose of measles containing vaccine are for children by the nationally recommended age.

- **2003:** Estimate based on interpolation between reported values. GoC=No accepted empirical data
- **2004:** Estimate based on reported administrative estimate. Estimate challenged by: D-
- **2005:** Estimate based on interpolation between reported values. GoC=No accepted empirical data
- **2006:** Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2007:** Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2008:** Estimate based on interpolation between reported values. Reported data excluded. 102 percent greater than 100 percent. Estimate challenged by: D-
- **2009:** Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2010:** Estimate based on interpolation between reported values. Reported data excluded. 114 percent greater than 100 percent. GoC=D+
- **2011:** Estimate based on interpolation between reported values. Reported data excluded. 105 percent greater than 100 percent. Estimate challenged by: D-
- **2012:** Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2013:** Estimate based on coverage reported by national government. Estimate challenged by: D-
- **2014:** Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Recommended age of administration for the second dose of measles containing vaccine changed to 18 months. Programme reports six month stock-out of measles containing vaccine at national level. Estimate challenged by: D-
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

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Dominica - HepB3

The WHO and UNICEF estimates of national immunization coverage (vaccine) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

2006: Estimate based on coverage reported by national government. HepB vaccine introduced in 2006. GoC=R+ D+
2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
2013: Estimate based on coverage reported by national government. Estimate challenged by: D-
2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

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The WHO and UNICEF estimates of national immunization coverage are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

July 9, 2015; page 9

WHO and UNICEF estimates of national immunization coverage - next revision available July 15, 2016

Data as of July 7, 2015
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

### Description:

2006: Estimate based on coverage reported by national government. Hib vaccine introduced in 2006. Vaccine presentation is DTP-HepB-Hib. GoC=R+ D+

2007: Estimate based on coverage reported by national government. Estimate challenged by: D-

2008: Estimate based on coverage reported by national government. Estimate challenged by: D-

2009: Estimate based on coverage reported by national government. Estimate challenged by: D-

2010: Estimate based on coverage reported by national government. Estimate challenged by: D-

2011: Estimate based on coverage reported by national government. Estimate challenged by: D-

2012: Estimate based on coverage reported by national government. Estimate challenged by: D-

2013: Estimate based on coverage reported by national government. Estimate challenged by: D-

2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

### Table:

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Further information and estimates for previous years are available at:
http://www.data.unicef.org/child-health/immunization